The Applicants provisionally elect the claims of Species I, Claims 1-4, with traverse.

The Restriction Requirement asserts that "This application contains claims directed to the following patentably distinct species of claimed invention: Species I – embodiment preventing a contaminant within a layer of ARC and Species II – embodiment with metal layer on substrate, applying nitrogen plasma to convert Ti to TiN layer." (March 10, 2005 Restriction Requirement, Page 2, Lines 16-19).

The Restriction Requirement also asserts that "Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic." (March 10, 2005 Restriction Requirement, Page 3, Lines 1-3).

In response, the Applicants provisionally elect the claims of Species I, Claims 1-4, with traverse, and provide the following list of all claims readable thereon:

1. In a semiconductor device of the type comprising a via wherein said via comprises a layer of titanium placed over a layer of anti-reflective coating (ARC) titanium nitride, a method for preventing a contaminant within said layer of anti-reflective coating (ARC) titanium nitride from combining with portions of said layer of titanium, said method comprising the steps of:

applying a nitrogen plasma to said layer of titanium; and

converting said layer of titanium to a first layer of titanium nitride;

wherein said contaminant does not chemically react with said first layer of titanium nitride.

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2. The method as set forth in Claim 1 wherein said contaminant within said layer of

anti-reflective coating (ARC) titanium nitride is fluorine.

3. The method as set forth in Claim 2 wherein said fluorine becomes embedded in said

layer of anti-reflective coating (ARC) titanium nitride during a partial etch procedure of said layer

of anti-reflective coating (ARC) titanium nitride.

4. The method as set forth in Claim 1 wherein said step of applying said nitrogen

plasma to said layer of titanium increases a temperature of said semiconductor device to a

temperature of approximately four hundred degrees Centigrade.

The Applicants respectfully submit that the method for preventing a contaminant within

a layer of anti-reflective coating (ARC) titanium nitride from combining with portions of a layer

of titanium as set forth in Claims 1-4 is an integral part of the method for manufacturing a via in a

semiconductor device as set forth in Claims 5-12.

The Applicants therefore respectfully submit that the claims of Species I (Claims 1-4) and

the claims of Species II (Claims 5-12) are not patentably distinct and that the March 10, 2005

Restriction Requirement fails to satisfy any of the requirements for restricting the claims of

the patent application. Accordingly, the Applicants respectfully request that the restriction be

withdrawn.

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If any issue arises, or if the Examiner has any suggestions for expediting allowance of this application, the Applicant respectfully invites the Examiner to contact the undersigned at the telephone number indicated below or at wmunck@davismunck.com.

The Commissioner is hereby authorized to charge any additional fees connected with this communication or credit any overpayment to Deposit Account No. 50-0208.

Respectfully submitted,

DAVIS MUNCK, P.C.

Date: Hpril 11, 2005

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